

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	("JP1265224").PN.	US-PGPUB; USPAT	OR	OFF	2005/05/19 17:14
L2	1	("1265224").PN.	US-PGPUB; USPAT	OR	OFF	2005/05/19 17:19
L3	1	chitosan and (water soluble) and (low endotoxin) and (phase transfer)	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 17:21
L4	1	chitosan and (water soluble) and (low endotoxin) and (phase transfer)	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 17:22
L5	1	chitosan and (low endotoxin) and (phase transfer)	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 17:23
L6	7	chitosan and acetylating and (phase transfer)	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 17:23
L10	104	water insoluble chitosan	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 17:48
L11	552	water soluble chitosan	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 18:00
L12	52	l10 and l11	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 17:45
L13	2	((water insoluble chitosan) same acetylating) and (water soluble chitosan)	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 17:49
L14	1	(water soluble chitosan) same (low endotoxin)	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 18:04
L15	11685	Hung.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 18:02
L16	34	l15 and chitosan	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 18:02

L17	2	l16 and endotoxin	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 18:02
L18	1	(water soluble chitosan) and (low endotoxin)	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 18:04
L19	1	bergbauer.in. and chitosan and endotoxin	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 18:40
L20	2	Su.in. and chitosan and endotoxin	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 18:41
L21	16	wang.in. and chitosan and endotoxin	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 19:00
L22	1	wages.in. and chitosan and endotoxin	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 18:42
L23	1	"4952618".pn. and (water soluble chitosan) and endotoxin	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 19:25
L24	0	(water soluble chitosan) same lipopolysaccharide	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 19:26
L25	13	(water soluble chitosan) and lipopolysaccharide	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/19 19:26

* * * * * Welcome to STN International * * * * *

=> file chemistry polymer

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=> s (water soluble chitosan) and endotoxin

20 FILES SEARCHED...

41 FILES SEARCHED...

54 FILES SEARCHED...

L1 6 (WATER SOLUBLE CHITOSAN) AND ENDOTOXIN

=> d l1 1-6 ibib ab

L1 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:325743 CAPLUS
DOCUMENT NUMBER: 142:375458

TITLE: **Water-soluble chitosan**
having low **endotoxin** concentration and
methods for making and using the same
INVENTOR(S): Hung, William M.; Bergbauer, Katrina L.; Su, Kai C.;
Wang, Guigui; Wages, Sherry
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 11 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005080245	A1	20050414	US 2003-681560	20031008
WO 2005034865	A2	20050421	WO 2004-US32898	20041005
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 2003-681560 A 20031008

AB A method of making **water-soluble chitosan** comprises steps of (A) contacting water-insol. chitosan with a basic solution, (B) rinsing the water-insol. chitosan to remove any residual basic solution, (C) partially acetylating the water-insol. chitosan in a reaction solution containing a phase transfer catalyst to form partially acetylated **water-soluble chitosan**, (D) dissolving the partially acetylated **water-soluble chitosan** in an aqueous solution containing a surfactant, (E) adjusting a pH of the aqueous solution to a pH of ≥ 7.0 , (F) adding a water-miscible solvent into the aqueous solution, (G) further adjusting the pH of the aqueous solution to a pH of ≥ 8.0 to cause precipitation of **water-soluble chitosan** having low **endotoxin** content, (H) separating the **water-sol . chitosan** having low **endotoxin** content from the aqueous solution, and (I) washing the **water-soluble chitosan** having low **endotoxin** content with the water-miscible solvent. A pharmaceutically acceptable solution comprises this **water-soluble chitosan** and a buffer material.

L1 ANSWER 2 OF 6 IFIPAT COPYRIGHT 2005 IFI on STN
AN 10841529 IFIPAT;IFIUDB;IFICDB

TITLE: **WATER-SOLUBLE CHITOSAN**
HAVING LOW **ENDOTOXIN** CONCENTRATION AND
METHODS FOR MAKING AND USING THE SAME
INVENTOR(S): Bergbauer; Katrina L., Decatur, GA, US
Hung; William M., Alpharetta, GA, US
Su; Kai C., Alpharetta, GA, US
Wages; Sherry, Atlanta, GA, US
Wang; Guigui, Cumming, GA, US
PATENT ASSIGNEE(S): Unassigned
AGENT: MERCHANT & GOULD PC, P.O. BOX 2903, MINNEAPOLIS, MN,
55402-0903, US

	NUMBER	PK	DATE
PATENT INFORMATION:	US 2005080245	A1	20050414
APPLICATION INFORMATION:	US 2003-681560		20031008
FAMILY INFORMATION:	US 2005080245		20050414
DOCUMENT TYPE:	Utility		
	Patent Application - First Publication		

FILE SEGMENT: CHEMICAL
APPLICATION

NUMBER OF CLAIMS: 50

AB **Water-soluble chitosan** having a low concentration of **endotoxin** is disclosed. Products containing the **water-soluble chitosan** are also disclosed. Methods of making and using **water-soluble chitosan** having a low concentration of **endotoxin** are further disclosed.

L1 ANSWER 3 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2005:93566 USPATFULL

TITLE: **Water-soluble chitosan**
having low **endotoxin** concentration and
methods for making and using the same

INVENTOR(S): Hung, William M., Alpharetta, GA, UNITED STATES
Bergbauer, Katrina L., Decatur, GA, UNITED STATES
Su, Kai C., Alpharetta, GA, UNITED STATES
Wang, Guigui, Cumming, GA, UNITED STATES
Wages, Sherry, Atlanta, GA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005080245	A1	20050414
APPLICATION INFO.:	US 2003-681560	A1	20031008 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	MERCHANT & GOULD PC, P.O. BOX 2903, MINNEAPOLIS, MN, 55402-0903, US		

NUMBER OF CLAIMS: 50

EXEMPLARY CLAIM: 1

LINE COUNT: 885

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB **Water-soluble chitosan** having a low concentration of **endotoxin** is disclosed. Products containing the **water-soluble chitosan** are also disclosed. Methods of making and using **water-soluble chitosan** having a low concentration of **endotoxin** are further disclosed.

L1 ANSWER 4 OF 6 USPATFULL on STN

ACCESSION NUMBER: 90:67671 USPATFULL

TITLE: Hydrocolloid/adhesive composition

INVENTOR(S): Olsen, Roger A., Woodbury, MN, United States

PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Company, St. Paul,
MN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4952618		19900828
APPLICATION INFO.:	US 1988-189614		19880503 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Nutter, Nathan M.		
LEGAL REPRESENTATIVE:	Sell, Donald M., Kirn, Walter N., Bates, Carolyn A.		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	568		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Hydrocolloid adhesive compositions are disclosed comprising a rubbery elastomeric base having dispersed therein hydrocolloid particles, at least some of which are polycationic hydrocolloid particles. The compositions have enhanced resistance to breakdown by body fluids and are especially useful as wound dressings.

L1 ANSWER 5 OF 6 WPIFV COPYRIGHT 2005 THOMSON DERWENT on STN

ACCESSION NUMBER: 2005-0499629 WPIFV

TITLE: **Water-soluble chitosan**
having low **endotoxin** concentration and
methods for making and using the same
INVENTOR(S): HUNG W M (US); BERGBAUER K L (US); SU K C (US);
WANG G (US); WAGES S (US)
PATENT ASSIGNEE(S): (ADJU-N) ADJUVANT PHARM LLC (US)
PATENT INFORMATION: WO 2005034865 A2 20050421 English E
RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR
GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL
OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ
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FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG
KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC
SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US
UZ VC VN YU ZA ZM ZW

PATENT INFORMATION (BASIC): US 2005080245 A1
APPLICATION. INFO: WO 2004-US32898 20041005
PATENT PRIORITY APPLN. INFO: US 2003-681560 20031008
AB AUTHOR ABSTRACT

Water-soluble chitosan having a low
concentration of **endotoxin** is disclosed. Products containing
the **water-soluble chitosan** are also
disclosed. Methods of making and using **water-soluble**
chitosan having a low concentration of **endotoxin** are
further disclosed.

L1 ANSWER 6 OF 6 WPIFV COPYRIGHT 2005 THOMSON DERWENT on STN
ACCESSION NUMBER: 2005-0449239 WPIFV
TITLE: **Water-soluble chitosan**
having low **endotoxin** concentration and
methods for making and using the same
AGENT: MERCHANT & GOULD PC
P.O. BOX 2903 , MINNEAPOLIS, MN 55402-0903 US
INVENTOR(S): HUNG W M (US); BERGBAUER K L (US); SU K C (US);
WANG G (US); WAGES S (US)
INVENTOR NAME FULL: Hung William MAlpharetta, GA US
Bergbauer Katrina LDecatur, GA US
Su Kai CAlpharetta, GA US
Wang Guigui Cumming, GA US
Wages Sherry Atlanta, GA US
PATENT ASSIGNEE(S): (HUNG-I) HUNG W M (US) ; (BERG-I) BERGBAUER K L
(US) ; (SUKC-I) SU K C (US) ; (WANG-I) WANG G (US)
; (WAGE-I) WAGES S (US)
PATENT INFORMATION: US 2005080245 A1 20050414 English B
APPLICATION. INFO: US 2003-681560 20031008
PATENT PRIORITY APPLN. INFO: US 2003-681560 20031008
AB AUTHOR ABSTRACT

Water-soluble chitosan having a low
concentration of **endotoxin** is disclosed. Products containing
the **water-soluble chitosan** are also
disclosed. Methods of making and using **water-soluble**
chitosan having a low concentration of **endotoxin** are
further disclosed.

=> dup rem l1
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INVESTEXT, KOSMET, RDISCLOSURE, USAN, PLASNEWS'.
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L2 3 DUP REM L1 (3 DUPLICATES REMOVED)

=> d l2 ibib

L2 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
ACCESSION NUMBER: 2005:325743 CAPLUS
DOCUMENT NUMBER: 142:375458
TITLE: **Water-soluble chitosan**

INVENTOR(S): having low **endotoxin** concentration and
methods for making and using the same
Hung, William M.; Bergbauer, Katrina L.; Su, Kai C.;
Wang, Guigui; Wages, Sherry
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 11 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005034865	A2	20050421	WO 2004-US32898	20041005
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PRIORITY APPLN. INFO.: US 2003-681560 A 20031008

=> d 12 1-3 ibib

L2 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN . DUPLICATE 1

ACCESSION NUMBER: 2005:325743 CAPLUS

DOCUMENT NUMBER: 142:375458

TITLE: **Water-soluble chitosan**

having low **endotoxin** concentration and
methods for making and using the same

INVENTOR(S): Hung, William M.; Bergbauer, Katrina L.; Su, Kai C.;
Wang, Guigui; Wages, Sherry

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 11 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005080245	A1	20050414	US 2003-681560	20031008
WO 2005034865	A2	20050421	WO 2004-US32898	20041005
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PRIORITY APPLN. INFO.: US 2003-681560 A 20031008

L2 ANSWER 2 OF 3 WPIFV COPYRIGHT 2005 THOMSON DERWENT on STN

ACCESSION NUMBER: 2005-0499629 WPIFV

TITLE: **Water-soluble chitosan**

having low **endotoxin** concentration and

INVENTOR(S): methods for making and using the same
HUNG W M (US); BERGBAUER K L (US); SU K C (US);
WANG G (US); WAGES S (US)
PATENT ASSIGNEE(S): (ADJU-N) ADJUVANT PHARM LLC (US)
PATENT INFORMATION: WO 2005034865 A2 20050421 English E
RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR
GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL
OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ
CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG
KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC
SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US
UZ VC VN YU ZA ZM ZW

PATENT INFORMATION (BASIC): US 2005080245 A1
APPLICATION. INFO: WO 2004-US32898 20041005
PATENT PRIORITY APPLN. INFO: US 2003-681560 20031008

L2 ANSWER 3 OF 3 USPATFULL on STN
ACCESSION NUMBER: 90:67671 USPATFULL
TITLE: Hydrocolloid/adhesive composition
INVENTOR(S): Olsen, Roger A., Woodbury, MN, United States
PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Company, St. Paul,
MN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4952618		19900828
APPLICATION INFO.:	US 1988-189614		19880503 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Nutter, Nathan M.		
LEGAL REPRESENTATIVE:	Sell, Donald M., Kirn, Walter N., Bates, Carolyn A.		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
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